

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

Listing of Claims:

Claims 1-3 (Cancelled).

Claim 4 (Currently Amended): A method for measuring a flow rate of a fluid using an ultrasonic flowmeter, the flowmeter including

an ultrasonic transmitter for launching ultrasonic pulses of a predetermined frequency into the fluid in a fluid pipe from an ultrasonic transducer along a measuring line;

a flow velocity distribution measuring unit for measuring flow velocity distribution of the fluid in a measurement region by receiving ultrasonic echoes reflected from the measurement region among the ultrasonic pulses incident into the fluid; and

a flow rate operation unit for calculating a flow rate of the fluid in the measurement region based on the flow velocity distribution of said fluid, the method comprising the steps of:

outputting a flow velocity distribution graph displaying the flow velocity in two axes of positions in the inner diameter direction of the fluid pipe relating to the measuring line and fluid velocities corresponding to the inner diameter direction;

calculating the position of the inner wall with respect to the axis in the inner diameter direction by calculating the inflection point from the fluid velocity distribution; and

calculating the flow rate of the fluid by an integral operation based on the inner wall position calculated at said inner wall position calculation step.

Claim 5 (Cancelled).

Claim 6 (Currently Amended): A storage medium having a computer program product recorded thereon, the program configured to control an ultrasonic flowmeter to implement a method of measuring~~measure~~ a flow rate of a fluid, the flowmeter including an ultrasonic transmitter for launching ultrasonic pulses of a predetermined frequency into the fluid in a fluid pipe from an ultrasonic transducer along a measuring line; a flow velocity distribution measuring unit for measuring flow velocity distribution of the fluid in a measurement region by receiving ultrasonic echoes reflected from the measurement region among the ultrasonic pulses incident into the fluid; and a flow rate operation unit for calculating a flow rate of the fluid in the measurement region based on the flow velocity distribution of said fluid, ~~wherein said computer program product makes the ultrasonic flowmeter execute at~~the method including the steps of:

outputting a flow velocity distribution graph displaying the flow velocity distribution in two axes of positions in the inner diameter direction of the fluid pipe relating to the measuring line and fluid velocities corresponding to the inner diameter direction;

calculating the inner wall position with respect to the axis in the inner diameter direction by calculating the inflection point from the fluid velocity distribution graph outputted at the distribution graph outputting step; and

calculating the flow rate of the fluid by an integral operation based on the inner wall position calculated at the inner wall position calculation step.

Claims 7-8 (Cancelled).